

# DER Regulatory Education and Outreach

Get the latest information on installing and permitting cutting-edge energy technologies!

The South Carolina Institute for Energy Studies at Clemson University, Piedmont Natural Gas, South Carolina Energy Office, and the Atlanta Regional Office of the U.S. Department of Energy are co-hosting a Distributed Energy Resources Road Show in Clemson, South Carolina, on April 23, 2003. The Road Show is a one-day workshop for building code inspectors, fire marshals, utility interconnection engineers, and others to learn about the installation, interconnection, and operation of new energy technologies.

A working fuel cell, microturbine, and reciprocating engine will be demonstrated during the event. The Labor Licensing & Regulations Board of South Carolina has approved 5.5 CEUs for this meeting. In addition, PNG is offering 5 Professional Development Hours for attendees.

Road Show Date:  
April 23, 2003

For more information, please visit  
[www.eere.energy.gov/aro/der\\_roadshows.html](http://www.eere.energy.gov/aro/der_roadshows.html).

Location:  
The Conference Center & Inn  
100 Madren Center Drive  
Clemson, SC 29634-5673

To register for the DER Road Show, please contact: Sue Tietenberg  
South Carolina Institute for Energy Studies (SCIES)  
864-656-2267

## Overview

Over the next decade, distributed energy resources will help optimize the energy delivery infrastructure of the United States. For this to happen smoothly, industry and regulators will need to coordinate their efforts to create a streamlined process for siting and permitting distributed energy resources.

U.S. regulation of the energy industry takes place at the Federal, State, and local levels of government. For example, currently there are little or no national standards for installing or interconnecting distributed generation; Federal guidance is in the form of air quality and environmental quality regulations. State and municipal agencies, as well as local utilities, have specific rules for siting and interconnecting distributed generation that must be met before the units can be installed and interconnected to the local grid.

Local utilities often review many aspects of the technologies before approving them for installation. They consider safety, exhaust temperatures and venting, gas pressures, building structures, noise, clearance, space limitations, vibration and environmental impacts. In many cases the evaluation criteria differs between cities and counties within the same state. Thus, manufacturers and their customers must conduct extensive research before fulfilling orders and installing the equipment. This can cause significant delays in project schedules, and makes it difficult to fulfill immediate power needs.

Implementing consistent rules and processes within each state and nationwide will streamline the integration of distributed energy resources in our nation's energy infrastructure.



# The U.S. Department of Energy Program

The Office of Distributed Energy & Electric Reliability at the U.S. Department of Energy supports a variety of long-term technology research and development programs in concert with industry to achieve “distributed-ness” within the energy industry. This includes supporting the U.S. regulatory infrastructure and leading education and outreach to facilitate the smooth deployment of these technologies.

Building infrastructure and deploying distributed generation may span over a decade, and the Department of Energy envisions participants from several tiers, including:

- Federal Energy Regulatory Commission and North American Electric Reliability Council Regional Transmission Organizations and Independent System Operators
- State Public Utility Commissions, Public Service Commissions, and state energy offices
- State environmental protection agencies
- County zoning and planning officials
- Municipal building code authorities and fire marshals
- Utility interconnection staff

The first step in this process has been DER Road Shows, in which the Department of Energy brings manufacturers and their products directly to interested city agencies. The one-day workshops include presentations of distributed energy technologies, including their installation and operation characteristics and the various codes and standards that apply to them. A facilitated discussion towards the end of the day engages local and state regulators into a dialogue with the manufacturers, allowing everyone to discuss local concerns, regulations, and technical issues.

**For more information:**

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U.S. Department of Energy  
Office of Distributed Energy and Electric Reliability

# Distributed Energy Road Show

## Hotel Information

### The Conference Center & Inn

100 Madren Center Drive  
Box 345673  
Clemson, SC 29634-5673  
(888) 654-9020 (864) 654-9020 FAX (864) 656-7154  
[madren@clermson.edu](mailto:madren@clermson.edu)

**From the North** Take I-85 south to exit #19B (Hwy. 76/28 west). Exit toward Clemson University (tiger paws mark the way). Follow Hwy. 76/28 west for approximately 12 miles. At the traffic light by the Army Reserve Center, turn left onto P erimeter Road. Go approximately one mile to the first traffic light and turn left onto Cherry Road. Go 1/2 mile and take the first right onto Old Stadium Road. Go 1/3 mile and turn left onto Madren Center Drive, which leads to the center

**From the South** Take I-85 north to exit #14 (Hwy. 187). Turn left onto Hwy. 187 toward Pendleton and proceed approximately six miles to traffic light at intersection with Hwy. 76/28. Turn left and follow Hwy. 76/28 west for approximately six miles. At the traffic light by the Army Reserve Center, turn left onto P erimeter Road. Go approximately one mile to the first traffic light and turn left onto Cherry Road. Go 1/2 mile and take the first right onto Old Stadium Road. Go 1/3 mile and turn left onto Madren Center Drive, which leads to the center.



Please identify yourself as an attendee of the Distributed Energy Road Show when making room reservations. Call the Hotel directly for availability and reservations. ALL participants are responsible for making their own travel and hotel reservations.

## Registration Information

**Pre-registration is required for every attendee.**

**Registration Fee** \$20.00

Registration fees will be waived for government employees.

**Method of Payment** (please provide all information)

VISA  Master Card  Discover

Card # \_\_\_\_\_

Exp. Date \_\_\_\_\_

Signature \_\_\_\_\_

Check Enclosed (Clemson University)

Mailing \_\_\_\_\_

Company Purchase Order—PO # \_\_\_\_\_

Billing Address \_\_\_\_\_

## Mail or fax registration to:

**South Carolina Institute for Energy Studies (SCI ES)**

**Attention: Sue Tietenberg**

**386-2 College Avenue**

**Clemson, SC 29634-5711**

**864-656-2267 Fax—864-656-0142**

**Submit one registration form per attendee**

**003. Duplicate form as needed.**

Name \_\_\_\_\_

Company \_\_\_\_\_

Address \_\_\_\_\_

City/State/Zip \_\_\_\_\_

Phone/Fax \_\_\_\_\_

Email \_\_\_\_\_